Little Science Stories for Laymen

Ozone, which is an allotropic form of longer and remain in better condition. oxygen, has long been recognized as an active purifying agent in the atmosqualities; but the question of its origin has been much disputed,

France, have led him to the conclusion weighed. that ozone forms in the upper regions of the air, probably under the influence

After a shower of rain the quantity magnifying one hundred diameters. of ozone in the air is always found to have been increased.

Unique Coffin.

Perhaps the most singular coffin in which a human being ever was buried

for the manufacture of or-lnance in the only a theoretical proof. Woolwich arsenal, in England, lost his

facture of ordnance, and the mass of cluded. metal was actually buried and a Church for the dead over it.

Electric Light for Birds.

It has been found by the authorities the difficulties in maintaining their aviaries is the providing of a proper environment for birds brought from the tropies.

atare is not enough. The birds demand mond cutter learns many facts about build me an house; I will sleep in the light as well as heat. Many of them precious stones which are sealed books air, as I have been used to do, "" in their native homes are accustomed even to mineralogists. to feed at sunrise and again just before elimes.

It has been found beneficial to keep known come from New South Wales. aviaries containing tropical birds brilclosely imitating the duration of day- before they are submitted to the polishtheir natural habitat. The result is on the end of a wooden stick, and a

How Perfume Is Weighed.

phere ewing to its powerful oxidizing who devised a microbalance of such extreme delicacy that it clearly demonstrated the loss of weight of musk by volatilization. Thus the invisible per The investigations of Henriet, in fume floating off in the air is indirectly

of the ultra-violet radiations from the end and extended horizontally. The sun, and that it is brought downward microscopic objects to be weighed are toward the surface of the earth both by placed upon the glass thread near its descending air currents and by drops free end, and the amount of flexure produced is observed with a microscope

the thread.

The Pressure of Light.

is the one of which the following story produce a mechanical push or pressure

balance and fell into a cauldron con- experimental demonstration of the open air they are carried off, but in a taining twelve tons of molten steel. The pressure of light. He employed a radi- close room we receive them again and metal was at white heat and the man ometer resembling the familiar Crookes again, though they become more and was utterly consumed in less time than radiometers with their revolving vanes, more corrupt. A number of persons The war office authorities held a con- exhausted bulb, from which the heating der it mortal as the Black Hole at Calference and decided not to profane the effect that is the principal agent in cutta. dead by using the metal in the manu- moving the Crookes vanes was ex-

tensity of the pressure thus revealed comes within ten per cent of that calculated by Maxwell. The effect is inof many zoological parks that one of dependent of the color of the light and that he slept always in the open air; directly proportional to its energy.

Diamond Cleaving.

The art of the lapidary is one of the most delicate employments of mechan-To warm the air to a tropical temper- | ical force known. The practical dia-

For instance, it is the lapidaries who the sofa? Host-Why, that's your sunset, and their habits in this respect have found out that diamonds coming wife, old man. Don't you recognize are seriously disturbed by the short- from different districts vary remark. her? Barker-No. She does her bridge ness of the winter days in northern ably in their degrees of hardness. It playing during the day, and I do mine appears that the hardest diamonds

An unfamiliar fact is that diamonds are made to assume approximately the liantly illuminated in the daytime with required shape by slitting and cleaving electric light from six o'clock in the and by "bruting," which is the rubmorning to six in the evening, thus bing of one diamond against another, ng wheel.

In cleaving the diamond is cememed that they feed in the normal way, live steel blade is driven with a smart blow

in the direction of the natural plane of eleavage. Diamonds that have been cut by the lapidary's wheel lack some of It was the Italian physician Salvion: the brilliance possessed by those that have simply been cleaved.

METHUSELAH SLEPT IN OPEN.

The New Hampshire Branch of the American Red Cross has published an interesting wall card, containing in The essential part of the apparatus is large type a brief quotation from Bena very thin thread of glass, fixed at one jamin Franklin's Art of Scearing Pleasant Dreams, written in 1798, which, says the Survey, forms a telling indorsement of the modern open air crusade.

"Another means of preserving health to be attended to is the having a constant supply of fresh air in your bedchamber. It has been a great mistake, A mote weighing one-thousandth of a the sleeping in rooms exactly closed and milligramme is said perceptibly to bend the beds surrounded gy curtains. No outward air that may come to you is so unwholesome as the unchanged air, often breathed, of a close chamber. As The idea that the waves of light boiling water does not grow hotter by long boiling if the particles that receive greater heat can escape, so living is not new, having been advanced years bodies do not putrefy, if the particles, A workman engaged in easting metal ago by Clerk Maxwell, who could offer so fast as they become putrid, can be

> Later Lebedew, of Moscow, made an the skin and the lungs, and in a free but used a larger and more completely the air in a few minutes, and even ren-

"A single person is said to spoil only a gallon of air per minute, and therefore requires a longer time to spoil a When the light falls upon the vanes chamberful; but it is done, however, in of England clergyman read the services they are driven before it, and the in- proportion, and many putrid disorders hence have their origin.

"It is recorded of Methuselah, who, being the longest liver, may be supposed to have preserved his health, for when he had lived five hundred years an angel said to him, 'Arise, Methuselah, and build thee an house, for thou shalt live yet five hundred years longer,' And Methuselah answered, and said, 'If I am to live but five hundred years longer, it is not worth while to

Barker-Who's the fat old girl on

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Many Cadillac Sales

are made to users who have been accustomed to buying much higher priced cars.

You will find, no doubt, that this has repeatedly occurred in the sphere of your own observation. And, in the same connection, other interesting phenomena have manifested themselves which bespeak universal satisfaction.

A Seeming Contradiction

What could be more significant, for instance, than the seeming contradiction of these two facts: First, that Cadillac owners almost never change. Second, that a majority of each year's buyers have

never owned a Cadillac before. This is literally true.

If you'll stop and think, can you recall a single Cadillac owner who transferred his allegiance to some other car?

And yet, we know, as we have said, that most of this year's Cadillac buyers have never owned a Cadillac before.

The Explanation

What is the explanation?

The very pleasing one that the Cadillac buyer gets more than a season's use out of his car-that most of last year's Cadillac buyers are driving

the same car this year. Speaking broadly, Cadillac cars do not deteriorate. If they are sold at the end of a season, they are sold for a high price. If they be exchanged, the exchange is usually generous.

Some Everyday Records of the



NEW YORK-75 Cadillac "Thirty" users drove their "Thirty" cars an aggregate of 398,884 miles at a total expense for mechanical repairs of \$53.21, averaging 71 cents per car for the season.

gate of 168,580 miles at a total repair cost of only \$5.71 or an average of but 12 cents per car for the season. INDIANAPOLIS-66 Cadillac users drove drove their cars

DAYTON-50 Cadillac owners drove their cars an aggre-

an aggregate of 252,599 miles. Total repair cost, \$71.30, averaging \$1.08 per car.

NET TOTAL-191 cars-820,063 miles-cost, \$130.22, Average cost of 69 cents each, or less than 16 cents for each

Last year's Cadillacs are in actual demand this year, in addition to the demand for the 1911 Cadillac. This year's sales will eat up each day's production as fast as completed and shipped.

Gather all these facts together and they will spell their own explanation. And that explanation is:

Standardization

The Cadillac does not deteriorate because of the high state of standardization which exists in each part and in the union of all the parts. That is why so many Cadillac owners use their car a second season and a third and a fourth and continuously. That is also why so many who have owned cars of a higher price buy the Cadillaca case of equal efficiency and greater economy. That, too, is why so large a proportion of new buyers choose the Cadillac. That is why the Cadillac owner says:-"If I had it to do over again, I would buy a Cadillac."

Standardization.-Perfect alignment of all the parts. Consequent removal of friction. The economy that results therefrom. That is the entire story of the success of last year's Cadillac, the Cadillacs of the years before, and the mag-

nificent Cadillac of 1911.

Cadillac Motor Car Company, Detroit, Michigan

(Licensed Under Selden Patent)

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Touring Car. Demi Tonneau and Roadster (Coupe \$2250

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Detroit